

KADOR ENGINEERING SCORES SEVERAL FIRSTS IN MINE WATER TANKER MANUFACTURE

Brisbane based Kador Engineering recently commissioned the first of eight 150kl water tankers, to suit Cat 789 trucks, for a WesTrac client in the Hunter Valley, NSW. Although Kador has built larger tanks in tow-behind configuration, these are understood to be the largest truck mounted tanks built for the Qld or NSW mining industries.

In developing the design for these tanks, which will hold the equivalent of three home swimming pools, Kador worked closely with their design partner and WesTrac to consider:

- A review of existing Kador designs for smaller tanks.
- A review of mine site water tank accidents, in particular those relating to truck rollovers.
- Considerations for the stability and handling on accepted haul road specifications, OEM weight distribution requirements and comparisons to existing water trucks.

- A strength assessment in accordance with relevant Australian Standards and literature, supported by previous FEA studies.
- Considerations to limit sloshing behaviour of water inside the tank to reduce dynamic loading on the tank structure, and to improve driver perceived controllability and handling.
- Safe manufacturing techniques.
- Transport (wide load) restrictions in NSW.

These 150KL water tanks are fitted with the EnviroSpray road speed dependant water spray control system to provide optimum control of water delivery. Kador are now considering the design parameters necessary to develop the next generation of water tanks, to suit 220T class trucks. These will hold approx 190kl, to operate at the very large open pits currently being planned in NSW and Qld.

Kador also secured another recent 'first' with orders from WesTrac and Hastings Deering Australia for five water tanks to go on the back of the Tasmanian designed and built Haulmax 3900 trucks, for delivery to NSW and Qld mines. These will be the first use of this truck to control dust on mine roads against special customer requirements.

The Kador Haulmax tanks will carry approximately 72KL and will also be fitted with the EnviroSpray water spray control system. Like all Kador water tanks, they are designed to fully tilt to provide full maintenance access to the truck chassis.

Commenting on the order, Kador's Senior Project Manager Michael Barker said 'We are pleased to be the first to deliver mine spray water tanks on this platform, and expect the features of the Haulmax truck will make it very popular with operators in water tanker mode'.

For more information visit www.kador.com.au

